

SUPPLEMENTAL APPLICATION INFORMATION**PART E. TOXICITY TESTING DATA**

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E. If no biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to complete.

E.1. Required Tests.

Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years.

chronic acute

E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

Test number: 1

Test number: 2

Test number: 3

a. Test information.

Test species & test method number	Sea Urchin Fertilization	Topsmelt Survival & Growth	Sea Urchin Fertilization
Age at initiation of test	1 day	1 day	1 day
Outfall number	001	001	001
Dates sample collected	02/06/2014	03/24/2014	03/27/2014
Date test started	02/07/2014	03/25/2014	03/28/2014
Duration	40 min.	6d 22h	NA

b. Give toxicity test methods followed.

Manual title	EPA/600/R-95-136	EPA/600/R-95-136	EPA/600/R-95-136
Edition number and year of publication	Aug. 1995	Aug. 1995	Aug. 1995
Page number(s)	Sect. 16, p389-465	Sect. 16, p389-465	Sect. 16, p389-465

c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.

24-Hour composite	1 Gallon	1 Gallon	1 Gallon
Grab	5 Gallon Seawater	5 Gallon Seawater	5 Gallon Seawater

d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)

Before disinfection			
After disinfection	1 Gallon 24 Hr. Comp.	1 Gallon 24 Hr. Comp.	1 Gallon 24 Hr. Comp.
After dechlorination			

FACILITY NAME AND PERMIT NUMBER:

City of Avalon WWTF

Form Approved 1/14/99
OMB Number 2040-0086

Test number: 1.00

Test number: 2.00

Test number: 3.00

e. Describe the point in the treatment process at which the sample was collected.

Sample was collected:	Final Effluent	Final Effluent	Final Effluent
-----------------------	----------------	----------------	----------------

f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both.

Chronic toxicity	Chronic	Chronic	Chronic
------------------	---------	---------	---------

Acute toxicity			
----------------	--	--	--

g. Provide the type of test performed.

Static	X	X	X
--------	---	---	---

Static-renewal			
----------------	--	--	--

Flow-through			
--------------	--	--	--

h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source.

Laboratory water			
------------------	--	--	--

Receiving water	Sea Water	Sea Water	Sea Water
-----------------	-----------	-----------	-----------

i. Type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.

Fresh water			
-------------	--	--	--

Salt water	Natural	Natural	Natural
------------	---------	---------	---------

j. Give the percentage effluent used for all concentrations in the test series.

	0.56, 1.0, 1.8, 3.2, & 5.6%'	0.41, 0.82, 1.64, 2.46, 3.69%	0.41, 0.82, 1.64, 2.46, 3.69%

k. Parameters measured during the test. (State whether parameter meets test method specifications)

pH		Met Specs	Met Specs
Salinity	Met Specs	Met Specs	Met Specs
Temperature	Met Specs	Met Specs	Met Specs
Ammonia			
Dissolved oxygen	Met Specs	Met Specs	Met Specs

l. Test Results.

Acute:			
--------	--	--	--

Percent survival in 100% effluent	%	%	%
LC ₅₀			
95% C.I.	%	%	%
Control percent survival	%	%	%
Other (describe)			

Chronic:

NOEC	5.60 %	3.69 %	3.69 %
IC ₂₅	5.60 %	3.69 %	3.69 %
Control percent survival	%	100.00 %	%
Other (describe)	TUC 17.86	TUC 27.1	TUC 27.1

m. Quality Control/Quality Assurance.

Is reference toxicant data available?	no	no	no
Was reference toxicant test within acceptable bounds?			
What date was reference toxicant test run (MM/DD/YYYY)?			
Other (describe)			

E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation? Yes No

If yes, describe: _____

_____**E.4. Summary of Submitted Biomonitoring Test Information.** If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.

Date submitted: _____ (MM/DD/YYYY)

Summary of results: (see instructions)

N/A

END OF PART E.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE.

FACILITY AND TREATMENT PROCESS DESCRIPTION

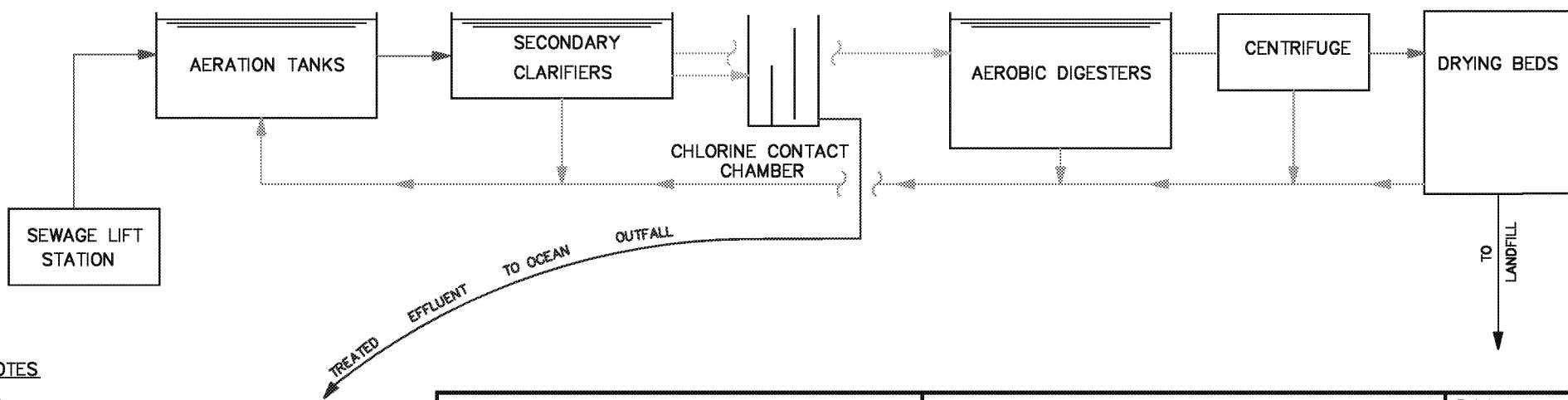
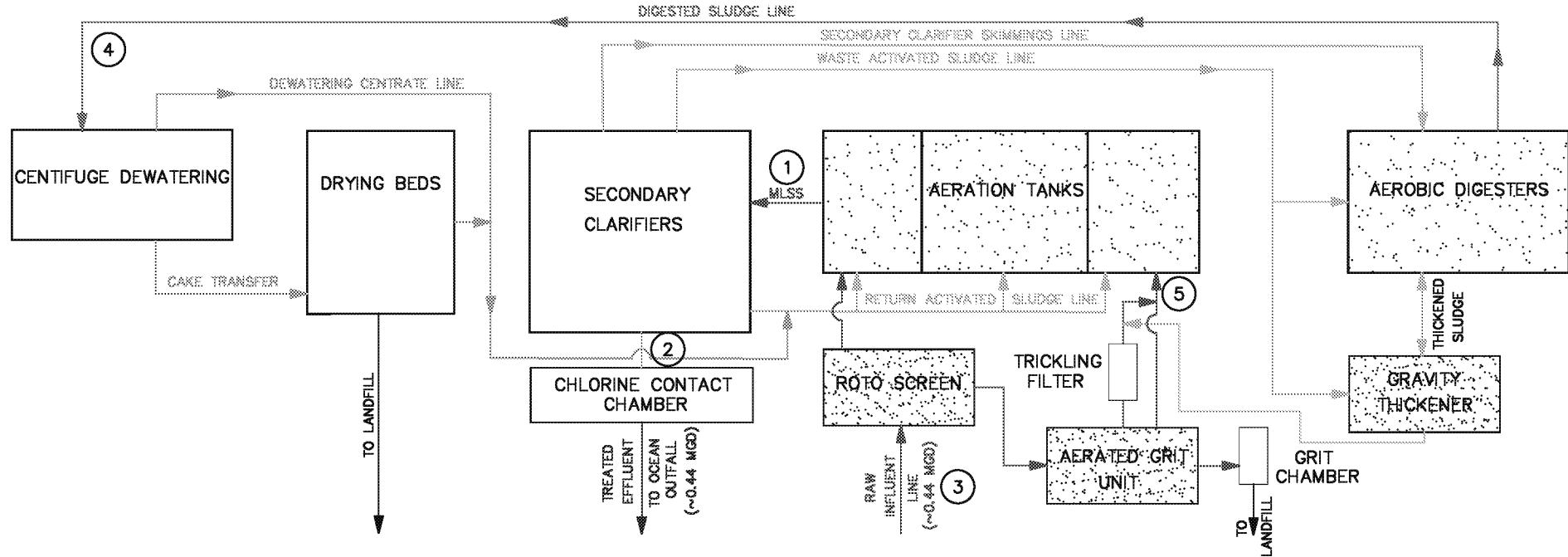
1. The City of Avalon owns and ES Engineering Services, LLC operates the Avalon WWTF located on Pebble Beach Road, near the southwestern coastal tip of Santa Catalina Island, Los Angeles County, California. The Avalon WWTF treats municipal wastewater, which is a mixture of fresh and salt water, from domestic and commercial sources. In addition, to protect water quality in Avalon Bay, the Avalon WWTF also treats a small portion of the dry weather surface runoff or first flush of stormwater (First ½ Hr. of Rainfall), which is pumped from storm drain catch basins to the Avalon WWTF via a low flow diversion system. This is an intermittent system and only activates during a rainfall events and is not a truly Combined Sewer System. After said First ½ Hr., rainfall drains through the stormwater system as per design to the ocean. There are approximately 3,500 people in its service area. The Plant has an average dry weather design treatment capacity of 1.2 million gallons per day (mgd). The average flow rate is 0.44 mgd and the maximum flow rate is 0.73 mgd. The treated wastewater is discharged into the Pacific Ocean, a water of the United States, through an ocean outfall off Pebble Beach.
2. Wastewater treatment at the Avalon WWTF consists of a rotating screen for removal of large particles, a trickling filter and activated sludge reactors for removal of organics, clarifiers for separation of solids, and a chlorination system. The effluent is partially chlorinated with the addition of sodium hypochlorite solution to maintain consistent compliance with the receiving water bacterial standards. Chlorine concentration is up to 2 mg/L in the effluent at the entrance to the chlorine contact chamber. Solids separated at the rotating screen are sent to a landfill. Waste sludge from the activated sludge reactors is aerobically digested, dewatered in a centrifuge, and dried in sludge drying beds before being hauled to a landfill. The trickling filter is only used during the summer, when part of the influent is passed through the trickling filter to increase the dissolved oxygen content of the wastewater.
3. No major alterations to the treatment process were conducted since the previous NPDES permit was received. Normal operations and maintenance activities have been performed as needed.

OUTFALL, DISCHARGE QUALITY AND RECEIVING WATER DESCRIPTION

4. The treated wastewater is discharged through the ocean outfall off Pebble Beach at approximately half way between the Avalon WWTF and Avalon Bay (see Figure 1). The description of the outfall is as follows:

Discharge Serial Number	001
Diameter of Pipe at Discharge Terminus (feet)	1
Outfall Distance Offshore (feet)	400
Discharge Depth Below Surface Water (feet)	130
Latitude	33deg 20'19" North
Longitude	118deg 18'40" West

5. The waste flow to the Avalon WWTF is approximately 40 to 50% salt water.
Seawater is used for toilet flushing in the City of Avalon.



NOTES

- ① CLARIFLOC C319 POLYMER INJECTION POINT
 - ② HTH CHLORINE SOLUTION INJECTION POINT
 - ③ DRY WEATHER RUN OFF / FIRST FLUSH
STORM WATER ENTERS WITH RAW INFLUENT
 - ④ SNF 6262 POLYMER INJECTION POINT
 - ⑤ UP TO 20% FROM AERATED GRIT UNIT
DIVERTED THRU TRICKLING FILTER

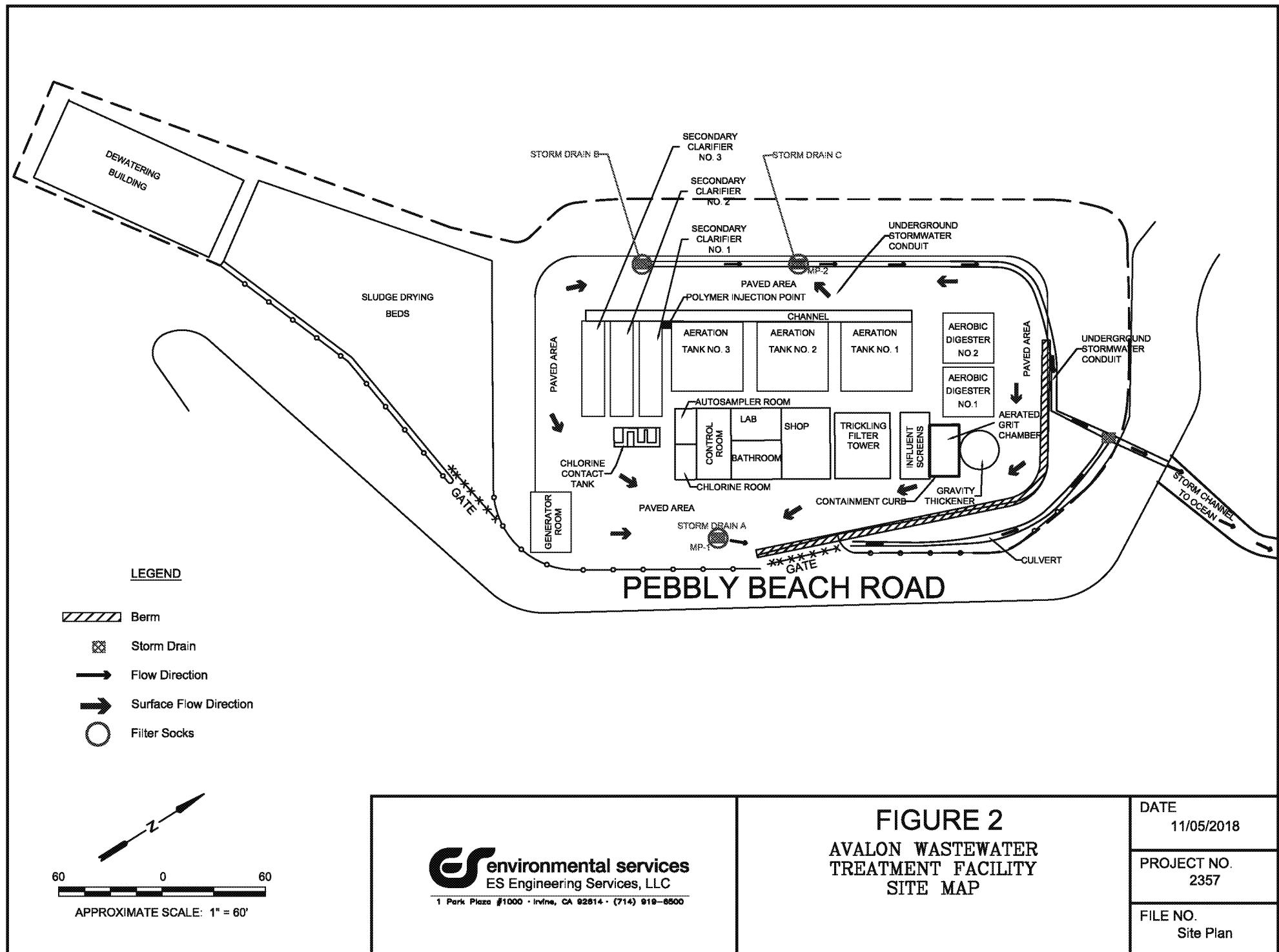


1 Park Plaza #1000 • Irvine, CA 92614 • (714) 919-6500

FIGURE 4
CITY OF AVALON WWTP
FLOW DIAGRAM
DESIGN FLOW 1.2 MGD

City of Avalon WWTF
123 Pebble Beach Rd.
Avalon, CA 90704

DATE	11/13/2018
PROJECT NO.	690B
FILE NO.	Fig4_FlowDiag



environmental services
ES Engineering Services, LLC

1 Park Plaza #1000 • Irvine, CA 92614 • (714) 919-8500

11. Describe any projects that have been completed at the facility during the current permit cycle that may impact the effluent quality.

There were no projects conducted that caused major alterations to the treatment process. Only normal operations and maintenance activities have been performed on an as-needed basis.

**Certification Supplement
for
National Pollutant Discharge Elimination System
Permit Application**

Please Print or Type

Legal Name of Applicant: City of Avalon

Facility: City of Avalon Wastewater Treatment Facility

"I Certify under penalty of law that his document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Base on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation."

Printed Name or Person Signing

Official Title

Signature

Date Application Signed

Date Supplement Signed

PART 1: LIMITED BACKGROUND INFORMATION

This part should be completed only by "sludge-only" facilities - that is, facilities that do not currently have, and are not applying for, an NPDES permit for a direct discharge to a surface body of water.

For purposes of this form, the term "you" refers to the applicant. "This facility" and "your facility" refer to the facility for which application information is submitted.

1. Facility Information.

- a. Facility name (310) 510-0731
- b. Mailing Address P O Box 1810
- c. Contact person CA
- Title 90704
- Telephone number 123 Pebble Beach Rd.
- d. Facility Address (not P.O. Box) Los Angeles
- Avalon
- e. Indicate the type of facility
- Publicly owned treatment works (POTW) Privately owned treatment works
- Federally owned treatment works Blending or treatment operation
- Surface disposal site Sewage sludge incinerator
- Other (describe) 90704

2. Applicant Information.

- a. Applicant name
- b. Mailing Address
- c. Contact person
- Title
- Telephone number
- d. Is the applicant the owner or operator (or both) of this facility?
- owner operator
- e. Should correspondence regarding this permit be directed to the facility or the applicant?
- facility applicant

3. Sewage Sludge Amount. Provide the total dry metric tons per latest 365 day period of sewage sludge handled under the following practices:

- a. Amount generated at the facility _____ dry metric tons
- b. Amount received from off site _____ dry metric tons
- c. Amount treated or blended on site _____ dry metric tons
- d. Amount sold or given away in a bag or other container for application to the land _____ dry metric tons
- e. Amount of bulk sewage sludge shipped off site for treatment or blending _____ dry metric tons
- f. Amount applied to the land in bulk form _____ dry metric tons
- g. Amount placed on a surface disposal site _____ dry metric tons
- h. Amount fired in a sewage sludge incinerator _____ dry metric tons
- i. Amount sent to a municipal solid waste landfill _____ dry metric tons
- j. Amount used or disposed by another practice _____ dry metric tons

Describe _____

4. Pollutant Concentrations. Using the table below or a separate attachment, provide existing sewage sludge monitoring data for the pollutants for which limits in sewage sludge have been established in 40 CFR part 503 for this facility's expected use or disposal practices. If available, base data on three or more samples taken at least one month apart and no more than four and one-half years old.

POLLUTANT	CONCENTRATION (mg/kg dry weight)	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
ARSENIC			
CADMIUM			
CHROMIUM	10.42	EPA 6010B / PREP 3050B	1
COPPER	111.13	EPA 6010B / PREP 3050B	1
LEAD	10.68	EPA 6010B / PREP 3050B	1
MERCURY	0.41	EPA 6010B / PREP 3050B	.14
MOLYBDENUM	4.94	EPA 6010B / PREP 3050B	1
NICKEL	7.08	EPA 6010B / PREP 3050B	1.5
SELENIUM	6.43	EPA 6010B / PREP 3050B	3
ZINC	297.33	EPA 6010B / PREP 3050B	5

5. Treatment Provided At Your Facility.

- a. Which class of pathogen reduction does the sewage sludge meet at your facility?

_____ Class A _____ Class B _____ Neither or unknown

- b. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:

c. Which vector attraction reduction option is met for the sewage sludge at your facility?

- Option 1 (Minimum 38 percent reduction in volatile solids)
- Option 2 (Anaerobic process, with bench-scale demonstration)
- Option 3 (Aerobic process, with bench-scale demonstration)
- Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
- Option 5 (Aerobic processes plus raised temperature)
- Option 6 (Raise pH to 12 and retain at 11.5)
- Option 7 (75 percent solids with no unstabilized solids)
- Option 8 (90 percent solids with unstabilized solids)
- Option 9 (Injection below land surface)
- Option 10 (Incorporation into soil within 6 hours)
- Option 11 (Covering active sewage sludge unit daily)
- None or unknown

d. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction properties of sewage sludge:

City of Avalon WWTF

6. **Sewage Sludge Sent to Other Facilities.** Does the sewage sludge from your facility meet the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements, and one of the vector attraction options 1-8?
 Yes No

If yes, go to question 8 (Certification).

If no, is sewage sludge from your facility provided to another facility for treatment, distribution, use, or disposal?
 Yes No

If no, go to question 7 (Use and Disposal Sites).

If yes, provide the following information for the facility receiving the sewage sludge:

a. Facility name _____

b. Mailing address _____

c. Contact person _____

Title _____

Telephone number Avalon _____

d. Which activities does the receiving facility provide? (Check all that apply)

- Treatment or blending Sale or give-away in bag or other container
- Land application Surface disposal
- Incineration Other (describe): _____

CA

FACILITY NAME AND PERMIT NUMBER:
City of Avalon WWTF CA-0054372, CI-0066

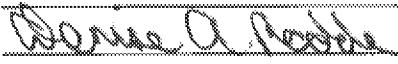
Form Approved 1/14/99
OMB Number 2040-0066

7. Use and Disposal Sites. Provide the following information for each site on which sewage sludge from this facility is used or disposed:

a. Site name or number Pebble Beach Landfill
b. Contact person John McNamara
Title Vice President
Telephone (714) 372-8281
c. Site location (Complete 1 or 2)
1. Street or Route # 1 Dump Road
County Los Angeles County
City or Town Avalon State CA 90704 Zip
2. Latitude 33°19'18"N Longitude 118°19'4"W
d. Site type (Check all that apply)
 Agricultural Lawn or home garden Forest
 Surface disposal Public Contact Incineration
 Reclamation Municipal Solid Waste Landfill Other (describe): _____

8. Certification. Sign the certification statement below. (Refer to instructions to determine who is an officer for purposes of this certification.)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with the system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title Denise Radde, City Manager
Signature 
Telephone number (310) 510-0220
Date signed 09/18/18

SEND COMPLETED FORMS TO:

FACILITY NAME AND PERMIT NUMBER:

City of Avalon WWTF CA-0054372, CI-0066

Form Approved 1/14/99
OMB Number 2040-0086

PART 2: PERMIT APPLICATION INFORMATION

Complete this part if you have an effective NPDES permit or have been directed by the permitting authority to submit a full permit application at this time. In other words, complete this part if your facility has, or is applying for, an NPDES permit.

For purposes of this form, the term "you" refers to the applicant. "This facility" and "your facility" refer to the facility for which application information is submitted.

APPLICATION OVERVIEW — SEWAGE SLUDGE USE OR DISPOSAL INFORMATION

Part 2 is divided into five sections (A-E). Section A pertains to all applicants. The applicability of Sections B, C, D, and E depends on your facility's sewage sludge use or disposal practices. The information provided on this page indicates which sections of Part 2 to fill out.

1. SECTION A: GENERAL INFORMATION.

Section A must be completed by all applicants

2. SECTION B: GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE.

Section B must be completed by applicants who either:

- 1) Generate sewage sludge, or
- 2) Derive a material from sewage sludge.

3. SECTION C: LAND APPLICATION OF BULK SEWAGE SLUDGE.

Section C must be completed by applicants who either:

- 1) Apply sewage to the land, or
- 2) Generate sewage sludge which is applied to the land by others.

NOTE: Applicants who meet either or both of the two above criteria are exempted from this requirement if all sewage sludge from their facility falls into one of the following three categories:

- 1) The sewage sludge from this facility meets the ceiling and pollutant concentrations, Class A pathogen reduction requirements, and one of vector attraction reduction options 1-8, as identified in the instructions, or
- 2) The sewage sludge from this facility is placed in a bag or other container for sale or give-away for application to the land, or
- 3) The sewage sludge from this facility is sent to another facility for treatment or blending.

4. SECTION D: SURFACE DISPOSAL

Section D must be completed by applicants who own or operate a surface disposal site.

5. SECTION E: INCINERATION

Section E must be completed by applicants who own or operate a sewage sludge incinerator.

FACILITY NAME AND PERMIT NUMBER:

City of Avalon WWTF CA-0054372, CI-0066

Form Approved 1/14/99
OMB Number 2040-0086**A. GENERAL INFORMATION****All applicants must complete this section.****A.1. Facility Information.**

- a. Facility name _____
- b. Mailing Address _____

- c. Contact person _____
Title _____
- Telephone number CA0054372
- d. Facility Address (not P.O. Box) _____

- e. Is this facility a Class I sludge management facility? _____ Yes _____ No
- f. Facility design flow rate: _____ mgd
- g. Total population served: _____
- h. Indicate the type of facility:
____ Publicly owned treatment works (POTW) ____ Privately owned treatment works
____ Federally owned treatment works ____ Blending or treatment operation
____ Surface disposal site ____ Sewage sludge incinerator
____ Other (describe) _____

A.2. Applicant Information. If the applicant is different from the above, provide the following:

- a. Applicant name 001
- b. Mailing Address _____

- c. Contact person _____
Title _____
Telephone number _____
- d. Is the applicant the owner or operator (or both) of this facility?
____ owner ____ operator
- e. Should correspondence regarding this permit should be directed to the facility or the applicant.
____ facility ____ applicant

FACILITY NAME AND PERMIT NUMBER:

City of Avalon WWTF CA-0054372, CI-0066

Form Approved 1/14/99
OMB Number 2040-0086

A.3. Permit Information.

- a. Facility's NPDES permit number (if applicable): 001

b. List, on this form or an attachment, all other Federal, State, and local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices:

Permit Number	Type of Permit
_____	_____
_____	_____
_____	_____

A.4. Indian Country. Does any generation, treatment, storage, application to land, or disposal of sewage sludge from this facility occur in Indian Country?

Yes No If yes, describe:

A.5. Topographic Map. Provide a topographic map or maps (or other appropriate map(s) if a topographic map is unavailable) that show the following information. Map(s) should include the area one mile beyond all property boundaries of the facility:

- a. Location of all sewage sludge management facilities, including locations where sewage sludge is stored, treated, or disposed.
 - b. Location of all wells, springs, and other surface water bodies, listed in public records or otherwise known to the applicant within 1/4 mile of the facility property boundaries.

A.6. Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit, including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction.

A.7. Contractor Information.

Are any operational or maintenance aspects of this facility related to sewage sludge generation, treatment, use or disposal the responsibility of a contractor? _____ Yes _____ No

If yes, provide the following for each contractor (attach additional pages if necessary):

- | | |
|-----------------------------------|------------------------------|
| a. Name | ES Engineering Services, LLC |
| b. Mailing Address | PO Box 1810 Avalon, CA 90704 |
| c. Telephone Number | (310) 510-0731 |
| d. Responsibilities of contractor | |

FACILITY NAME AND PERMIT NUMBER:
City of Avalon WWTF CA-0054372, CI-0066

Form Approved 1/14/99
OMB Number 2040-0086

A.8. Pollution Concentrations: Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants for which limits in sewage sludge have been established in 40 CFR Part 503 for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old.

POLLUTANT	CONCENTRATION (mg/kg dry weight)	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
ARSENIC			6.80
CADMIUM			57.00
CHROMIUM			
COPPER			
LEAD			147.00
MERCURY			0.00
MOLYBDENUM			
NICKEL			23,500.00
SELENIUM			
ZINC			5

A.9. Certification. Read and submit the following certification statement with this application. Refer to the instructions to determine who is an officer for purposes of this certification. Indicate which parts of Form 2S you have completed and are submitting:

Part 1 Limited Background Information packet

Part 2 Permit Application Information packet:

- Section A (General Information)
- Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)
- Section C (Land Application of Bulk Sewage Sludge)
- Section D (Surface Disposal)
- Section E (Incineration)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with the system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title _____

Signature _____ Date signed _____

Telephone number _____

Upon request of the permitting authority, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

SEND COMPLETED FORMS TO:

FACILITY NAME AND PERMIT NUMBER:
City of Avalon WWTF CA-0054372, CI-0066

Form Approved 1/14/99
OMB Number 2040-0086

**B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF
A MATERIAL DERIVED FROM SEWAGE SLUDGE**

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge.

B.1. Amount Generated On Site.

Total dry metric tons per 365-day period generated at your facility: _____ dry metric tons

B.2. Amount Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use, or disposal, provide the following information for each facility from which sewage sludge is received. If you receive sewage sludge from more than one facility, attach additional pages as necessary.

a. Facility name _____

b. Mailing Address

c. Contact person _____

Title _____

Telephone number _____

d. Facility Address (not P.O. Box)

e. Total dry metric tons per 365-day period received from this facility: _____ dry metric tons

f. Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics.

B.3. Treatment Provided At Your Facility.

a. Which class of pathogen reduction is achieved for the sewage sludge at your facility?

Class A Class B Neither or unknown

b. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:

c. Which vector attraction reduction option is met for the sewage sludge at your facility?

- Option 1 (Minimum 38 percent reduction in volatile solids)
- Option 2 (Anaerobic process, with bench-scale demonstration)
- Option 3 (Aerobic process, with bench-scale demonstration)
- Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
- Option 5 (Aerobic processes plus raised temperature)
- Option 6 (Raise pH to 12 and retain at 11.5)
- Option 7 (75 percent solids with no unstabilized solids)
- Option 8 (90 percent solids with unstabilized solids)
- None or unknown

B.3. Treatment Provided At Your Facility. (con't)

- d. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction properties of sewage sludge:

451,000.00

- e. Describe, on this form or another sheet of paper, any other sewage sludge treatment or blending activities not identified in (a) - (d) above:

Complete Section B.4 if sewage sludge from your facility meets the ceiling concentrations in Table 1 of 40 CFR 503.13, the pollutant concentrations in Table 3 of §503.13, the Class A pathogen reduction requirements in §503.32(a), and one of the vector attraction reduction requirements in § 503.33(b)(1)-(8) and is land applied. Skip this section if sewage sludge from your facility does not meet all of these criteria.

B.4. Preparation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements, and One of Vector Attraction Reduction Options 1-8.

- a. Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land: _____ dry metric tons
- b. Is sewage sludge subject to this section placed in bags or other containers for sale or give-away for application to the land?

_____ Yes _____ No

Complete Section B.5. if you place sewage sludge in a bag or other container for sale or give-away for land application. Skip this section if the sewage sludge is covered in Section B.4.

B.5. Sale or Give-Away in a Bag or Other Container for Application to the Land.

- a. Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility for sale or give-away for application to the land: _____ dry metric tons
- b. Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or given away in a bag or other container for application to the land.

Complete Section B.6 if sewage sludge from your facility is provided to another facility that provides treatment or blending. This section does not apply to sewage sludge sent directly to a land application or surface disposal site. Skip this section if the sewage sludge is covered in Sections B.4 or B.5. If you provide sewage sludge to more than one facility, attach additional pages as necessary.

B.6. Shipment Off Site for Treatment or Blending.

- a. Receiving facility name _____
- b. Mailing address _____

- c. Contact person _____
Title _____
Telephone number _____
- d. Total dry metric tons per 365-day period of sewage sludge provided to receiving facility: _____

B.6. Shipment Off Site for Treatment or Blending. (con't)

e. Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility? Yes No

Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility?

Class A Class B Neither or unknown

Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce pathogens in sewage sludge:

f. Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the sewage sludge?

Yes No

Which vector attraction reduction option is met for the sewage sludge at the receiving facility?

- Option 1 (Minimum 38 percent reduction in volatile solids)
 Option 2 (Anaerobic process, with bench-scale demonstration)
 Option 3 (Aerobic process, with bench-scale demonstration)
 Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
 Option 5 (Aerobic processes plus raised temperature)
 Option 6 (Raise pH to 12 and retain at 11.5)
 Option 7 (75 percent solids with no unstabilized solids)
 Option 8 (90 percent solids with unstabilized solids)
 None

Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce vector attraction properties of sewage sludge.

g. Does the receiving facility provide any additional treatment or blending activities not identified in (c) or (d) above? Yes No

If yes, describe, on this form or another sheet of paper, the treatment or blending activities not identified in (c) or (d) above:

h. If you answered yes to (e), (f), or (g), attach a copy of any information you provide the receiving facility to comply with the "notice and necessary information" requirement of 40 CFR 503.12(g).

i. Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land? Yes No

If yes, provide a copy of all labels or notices that accompany the product being sold or given away.

Complete Section B.7 if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in:

- Section B.4 (it meets Table 1 ceiling concentrations, Table 3 pollutant concentrations, Class A pathogen requirements, and one of vector attraction reduction options 1-8); or
- Section B.5 (you place it in a bag or other container for sale or give-away for application to the land); or
- Section B.6 (you send it to another facility for treatment or blending).

B.7. Land Application of Bulk Sewage Sludge.

a. Total dry metric tons per 365-day period of sewage sludge applied to all land application sites: _____ dry metric tons

B.7. Land Application of Bulk Sewage Sludge. (con't)

b. Do you identify all land application sites in Section C of this application? _____ Yes _____ No

If no, submit a copy of the land application plan with application (see instructions).

c. Are any land application sites located in States other than the State where you generate sewage sludge or derive a material from sewage sludge? _____ Yes _____ No

If yes, describe, on this form or another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification.

Complete Section B.8 if sewage sludge from your facility is placed on a surface disposal site.**B.8. Surface Disposal.**

a. Total dry metric tons of sewage sludge from your facility placed on all surface disposal sites per 365-day period: _____ dry metric tons

b. Do you own or operate all surface disposal sites to which you send sewage sludge for disposal?

_____ Yes _____ No

If no, answer B.8.c through B.8.f for each surface disposal site that you do not own or operate. If you send sewage sludge to more than one such surface disposal site, attach additional pages as necessary.

c. Site name or number _____

d. Contact person _____

Title _____

Telephone number _____

Contact is _____ Site owner _____ Site operator

e. Mailing address _____

f. Total dry metric tons of sewage sludge from your facility placed on this surface disposal site per 365-day period: _____ dry metric tons

Complete Section B.9 if sewage sludge from your facility is fired in a sewage sludge Incinerator.**B.9. Incineration.**

a. Total dry metric tons of sewage sludge from your facility fired in all sewage sludge incinerators per 365-day period: _____ dry metric tons

b. Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired? _____ Yes _____ No

If no, complete B.9.c through B.9.f for each sewage sludge incinerator that you do not own or operate. If you send sewage sludge to more than one such sewage sludge incinerator, attach additional pages as necessary.

c. Incinerator name or number: _____

d. Contact person: _____

Title: _____

Telephone number: _____

Contact is: _____ Incinerator owner _____ Incinerator operator

FACILITY NAME AND PERMIT NUMBER:

City of Avalon WWTF CA-0054372, CI-0066

Form Approved 1/14/99
OMB Number 2040-0086**B.9. Incineration. (con't)**e. Mailing address:

f. Total dry metric tons of sewage sludge from your facility fired in this sewage sludge incinerator per 365-day period: _____ dry metric tons

Complete Section B.10 if sewage sludge from this facility is placed on a municipal solid waste landfill.**B.10. Disposal in a Municipal Solid Waste Landfill.** Provide the following information for each municipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one municipal solid waste landfill, attach additional pages as necessary.a. Name of landfill 001

b. Contact person 001

Title

Telephone number

Contact is _____ Landfill owner _____ Landfill operator

c. Mailing address

d. Location of municipal solid waste landfill:

Street or Route #

County

City or Town _____ State _____ Zip _____

e. Total dry metric tons of sewage sludge from your facility placed in this municipal solid waste landfill per 365-day period:

 dry metric tons

f. List, on this form or an attachment, the numbers of all other Federal, State, and local permits that regulate the operation of this municipal solid waste landfill.

Permit Number _____ Type of Permit _____

g. Submit, with this application, information to determine whether the sewage sludge meets applicable requirements for disposal of sewage sludge in a municipal solid waste landfill (e.g., results of paint filter liquids test and TCLP test)

h. Does the municipal solid waste landfill comply with applicable criteria set forth in 40 CFR Part 258?

 Yes

 No

Avalon Wastewater Treatment Facility Monthly Effluent Monitoring Requirements

STATION RSW-1			STATION RSW-2			STATION RSW-4			STATION RSW-6			
TOTAL COLIFORM	FECAL COLIFORM	ENTERO-COCCUS										
MPN/100ml	MPN/100ml	CFU/100ml										
Sample Type:	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	
Jan 2013	<2	<2	1	<2	<2	1	4	4	1	2	2	<1
Jan 2014	<2	<2	27	<2	<2	3	2	<2	3	<2	<2	6
Jan 2015	1	<1	<1	<1	<1	<1	1	<1	1	<1	<1	<1
Jan 2016	<1	2	<1	<1	<1	<1	<1	<1	<1	2	<1	<1
Jan 2017	<1	2	<1	<1	<1	<1	<1	<1	<1	2	<1	<1
Feb 2013	11	7	<10	13	8	<10	13	13	<10	2	2	<10
Feb 2014	<1	<1	<1	3.1	<1	<1	1	<1	<1	1	<1	<1
Feb 2015	1	<1	<1	<1	<1	<1	1	<1	1	<1	<1	<1
Feb 2016	<1	<1	<1	1	<1	<1	7.5	<1	<1	<1	<1	<1
Feb 2017	<1	<1	<1	1	<1	<1	7.5	<1	<1	<1	<1	<1
Mar 2013	<2	<2	<10	4	<2	<10	<2	<2	<10	<2	<2	<10
Mar 2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Mar 2015	1	<1	<1	<1	<1	<1	1	<1	1	<1	<1	<1
Mar 2016	1	<1	<1	<1	<1	<1	1	<1	1	<1	<1	<1
Mar 2017	1	<1	<1	<1	<1	<1	1	<1	1	<1	<1	<1
Apr 2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Apr 2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Apr 2015	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1
Apr 2016	<1	<1	<1	1	1	<1	<1	<1	<1	1	<1	<1
Apr 2017	<1	<1	<1	1	1	<1	<1	<1	<1	1	<1	<1
May 2013	2	2	<1	7	7	<1	<2	<2	<1	<2	<2	<1
May 2014	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1
May 2015	<1	<1	<1	<1	<1	<1	2	<1	<1	2	<1	<1
May 2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
May 2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Jun 2013	<2	<2	<1	<2	<2	<1	<2	<2	<1	<2	<2	<1
Jun 2014	<1	<1	2	<1	<1	5	<1	<1	4	<1	<1	5

Avalon Wastewater Treatment Facility Monthly Effluent Monitoring Requirements

Jun 2015	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1
Jun 2016	<1	<1	<1	<1	<1	<1	<1	2	<1	1	<1	<1
Jun 2017	<1	<1	<1	<1	<1	<1	<1	2	<1	1	<1	<1
Jul 2013	<2	<2	<1	<2	<2	<1	<2	<2	1	<2	<2	1
Jul 2014	1	<1	<1	4.1	<1	<1	<1	<1	<1	1	<1	<1
Jul 2015	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1
Jul 2016	<1	<1	<1	2	<1	<1	1	<1	<1	<1	<1	<1
Jul 2017	<1	<1	<1	<1	2	<1	<1	<1	<1	1	<1	<1
Aug 2013	2	<2	1	<2	<2	<1	<2	<2	<1	<2	<2	<1
Aug 2014	<1	3.1	<1	<1	1	<1	4.1	2	<1	1	<1	<1
Aug 2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aug 2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aug 2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sept 2013	<2	<2	<1	<2	<2	<1	<2	<2	<1	<2	<2	<1
Sept 2014	1	<1	1	<1	<1	<1	1	<1	<1	<1	<1	2
Sept 2015	3	<1	<1	1	<1	<1	1	<1	<1	<1	<1	<1
Sept 2016	<1	<1	<1	3	<1	<1	2	<1	<1	<1	<1	<1
Sept 2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Oct 2013	<2	<2	<1	<2	<2	<1	<2	<2	<1	<2	<2	1
Oct 2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Oct 2015	<1	<1	<1	2	<1	<1	1	<1	<1	1	<1	<1
Oct 2016	<1	<1	<1	2	1	<1	1	<1	<1	3	<1	<1
Oct 2017	<1	<1	<1	2	1	<1	1	<1	<1	3	<1	<1
Nov 2013	<2	<2	<1	<2	<2	<1	<2	<2	<1	<2	<2	2
Nov 2014	1	<1	<1	<1	<1	<1	1	<1	1	<1	<1	<1
Nov 2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nov 2016	<1	<1	<1	3	<1	<1	2	<1	<1	<1	<1	<1
Nov 2017	<1	<1	<1	3	<1	<1	2	<1	<1	<1	<1	<1
Dec 2013	4	2	<1	<2	<2	1	2	<2	<1	7	2	4
Dec 2014	<1	<1	<1	<1	<1	<1	1	<1	1	<1	<1	<1
Dec 2015	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1
Dec 2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dec 2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Avalon Wastewater Treatment Facility Monthly Influent Monitoring Requirements

Monitoring Location: INF-001

	FLOW MGD	TSS mg/L	TSS lbs/day	BOD mg/L	BOD lbs/day	pH SU	OIL & GREASE mg/L	TOC mg/L
Sample Type:	recorder	24hr Comp	24hr Comp	24hr Comp	24hr Comp	Grab	Grab	24hr Comp
Jan 2013	0.375	540	1778	216	735	7.86	ND	54
Jan 2014	0.368	350	1121	294	938	7.49	20	71.8
Jan 2015	0.362	676	2229	247	415	7.83	15	83
Jan 2016	0.3539	290.5	728.937	190.75	540.332	8.05	13.8	66
Jan 2017	0.372	386	1603.21	199.6	747.619	7.51	16.4	45
Feb 2013	0.361	351	1152	178	594	7.76	17	45
Feb 2014	0.409	469	1693	357	1284	7.7	43.8	110
Feb 2015	0.362	487	1532	217	606	7.72	10.2	80
Feb 2016	0.39607	370.25	1176.13	222.5	714.959	7.94	8.1	27
Feb 2017	0.423	307	1081	246	800	7.715	20.000	21
Mar 2013	0.409	346	1227	193	678	7.7	20	55
Mar 2014	0.442	559	2109	259	946	7.98	27.8	71
Mar 2015	0.414	348	1142	211	694	7.5	9.1	100
Mar 2016	0.41777	308.4	1026.74	218.696	739.328	8.08	11.2	33
Mar 2017	0.398	399.8	1393.39	243.4	831.625	8.1	17.8	58
Apr 2013	0.414	354	1289	229	830	7.67	n/a	n/a
Apr 2014	0.469	296	1137	216	836	8.1	23.7	66
Apr 2015	0.414	429	1413	275	891	7.93	28.2	110
Apr 2016	0.39973	333	1065.66	204.25	650.201	8.06	26.6	64
Apr 2017	0.449	445.25	1699.22	335.5	1279.33	7.955	23.1	61.5
May 2013	0.448	572	2372	298	1308	7.74	26	70
May 2014	0.478	415	1687	362	1426	7.57	38	130
May 2015	0.417	310	1032	251	769	8.07	22.8	140
May 2016	0.4119	288.6	955.07	257.4	860.715	7.58	20.7	59
May 2017	0.456	411	1607	374	1452	7.51	12	1.2
Jun 2013	0.518	414	1771	251	1084	7.67	ND	59
Jun 2014	0.519	532	2256	343	1442	7.54	16.3	130
Jun 2015	0.478	226	834	241	902	8.06	23.4	78
Jun 2016	0.4814	253	1009.6	231.25	920.853	7.95	20.1	25
Jun 2017	0.501	356.75	1479.91	281.75	1157.67	8.125	100	8.125
Jul 2013	0.639	493	2446	316	1570	7.83	60	55.8
Jul 2014	0.584	721	3507	340	1680	7.93	1.8	66
Jul 2015	0.58	198	947	171	811	7.89	12	120
Jul 2016	0.56947	309.5	1509.46	259.25	1273.21	7.98	41.1	37
Jul 2017	0.593	431	2182.43	356.5	1794.44	7.795	3.5	34
Aug 2013	0.612	548	2819	287	1497	7.84	ND	43
Aug 2014	0.527	627	2813	349	1570	7.58	19.6	56
Aug 2015	0.543	335	1500	232	1028	8.03	16.8	140
Aug 2016	0.554	303	1355	224	1002	7.83	12.7	56
Aug 2017	0.561	370	1799	297	1441	7.49	17.0	27.0
Sept 2013	0.535	520	2500	283	1332	7.85	30	48.7

Avalon Wastewater Treatment Facility Monthly Influent Monitoring Requirements

Monitoring Location: INF-001

	FLOW MGD	TSS mg/L	TSS lbs/day	BOD mg/L	BOD lbs/day	pH SU	OIL & GREASE mg/L	TOC mg/L
Sample Type:	recorder	24hr Comp	24hr Comp	24hr Comp	24hr Comp	Grab	Grab	24hr Comp
Sept 2014	0.444	663	2566	298	1153	7.51	14.3	84
Sept 2015	0.492	272	1127	225	930	7.83	13.8	130
Sept 2016	0.48087	249.75	959.438	243.5	927.956	8.05	12.8	75
Sept 2017	0.511	322.5	1557.23	298	1426.73	7.646	60	40
Oct 2013	0.458	366	1564	187.0	795	7.93	19	42.7
Oct 2014	0.421	797	2714	354	1201	7.98	8.8	98
Oct 2015	0.47	314	1237	223	874	7.64	11	72
Oct 2016	0.42845	385	1319.5	318.25	1126.39	7.84	5.1	69
Oct 2017	0.465	425	1787	395.3	1647	8.04	14	38
Nov 2013	0.425	326	1113	335	1128	7.73	20	39.5
Nov 2014	0.381	676	2297	250	680	7.83	15	83
Nov 2015	0.419	263	888	201	681	7.95	52.2	20
Nov 2016	0.37797	220.2	656.24	263.682	857.237	7.80	24.1	62
Nov 2017	0.426	483.8	1955.4	335.955	1676.51	7.95	17	41
Dec 2013	0.389	494	1668	299	1010	7.4	30	37.5
Dec 2014	0.377	526	1518	236	814	7.83	7.1	82
Dec 2015	0.368	287	898	191	595	7.86	8.8	35
Dec 2016	0.34213	181.5	481.691	270.182	813.926	7.8	21.5	81
Dec 2017	0.390	417	1318	315	996	8.025	13	38

Avalon WWTF Annual Major Wastewater Constituents Analysis
Priority Pollutant Metals Analysis
for Years 2013 thru 2017

Monitoring Location - Eff-001

Project ID: AVALON WWTF

Element	Result	Units	MDL	RDL	Date & Time Collected		Date & Time Analyzed		Sample ID	Analytical Method	Lab	Job No.
Antimony	0.67	ug/L	0.2	0.7	8/15/2013	10:45	8/28/2013	0:00	Eff Comp	EPA 200.8	Exova	150691
Antimony	ND	ug/L	0.995	10	5/9/2014	7:20	5/13/2014	15:57	Eff Comp	EPA 200.8	Cal Science	14-05-0722
Antimony	ND	ug/L	0.995	5	8/7/2014	7:45	8/12/2014	23:30	Eff Comp	EPA 200.8	Cal Science	14-08-0512
Antimony	ND	ug/L	1		11/14/2014	6:45	11/19/2014	0:00	Eff Comp	EPA 200.8	Exova	161735
Antimony	2	ug/L	1		1/27/2015	7:00	2/9/2015	0:00	Eff Comp	EPA 200.8	Exova	163700
Antimony	ND	ug/L	0.3		4/28/2015	6:55	5/6/2015	0:00	Eff Comp	EPA 200.8	Exova	165925
Antimony	ND	ug/L	1		7/15/2015	6:45	7/29/2015	0:00	Eff Comp	EPA 200.8	Exova	167878
Antimony	0.3	ug/L	0.05		10/28/2015	6:45	11/6/2015	0:00	Eff Comp	EPA 200.8	Exova	170568
Antimony	0.435	ug/L	0.05		1/20/2016	6:30	1/28/2016	0:00	Eff Comp	EPA 200.8	Exova	201391
Antimony	ND	ug/L	1		4/7/2016	6:35	4/13/2016	0:00	Eff Comp	EPA 200.8	Exova	203408
Antimony	ND	ug/L	1		7/28/2016	6:30	8/3/2016	0:00	Eff Comp	EPA 200.8	Exova	206267
Antimony	ND	ug/L	1		10/13/2016	7:30	10/20/2016	0:00	Eff Comp	EPA 200.8	Exova	208160
Antimony	2	ug/L	1		2/4/2017	6:30	2/15/2017	0:00	Eff Comp	EPA 200.8	Exova	210743
Antimony	ND	ug/L	1		4/25/2017	6:30	5/3/2017	0:00	Eff Comp	EPA 200.8	Exova	212745
Antimony	ND	ug/L	1		7/12/2017	6:30	7/20/2017	0:00	Eff Comp	EPA 200.8	Exova	214718
Antimony	ND	ug/L	1		10/4/2017	6:30	10/12/2017	0:00	Eff Comp	EPA 200.8	Exova	216810
Arsenic	1.3	ug/L	0.2	0.3	8/15/2013	10:45	8/28/2013	0:00	Eff Comp	EPA 200.8	Exova	150691
Arsenic	9.28	ug/L	3.86	10	5/9/2014	7:20	5/13/2014	15:57	Eff Comp	EPA 200.8	Cal Science	14-05-0722
Arsenic	12.5	ug/L	3.86	5	8/7/2014	7:45	8/12/2014	23:30	Eff Comp	EPA 200.8	Cal Science	14-08-0512
Arsenic	ND	ug/L	1		11/14/2014	6:45	11/19/2014	0:00	Eff Comp	EPA 200.8	Exova	161735
Arsenic	2.7	ug/L	0.9		1/27/2015	7:00	2/9/2015	0:00	Eff Comp	EPA 200.8	Exova	163700
Arsenic	ND	ug/L	0.9		4/28/2015	6:55	5/6/2015	0:00	Eff Comp	EPA 200.8	Exova	165925
Arsenic	2	ug/L	1		7/15/2015	6:45	7/29/2015	0:00	Eff Comp	EPA 200.8	Exova	167878
Arsenic	1.6	ug/L	0.07		10/28/2015	6:45	11/6/2015	0:00	Eff Comp	EPA 200.8	Exova	170568
Arsenic	1.25	ug/L	0.05		1/20/2016	6:30	1/28/2016	0:00	Eff Comp	EPA 200.8	Exova	201391
Arsenic	ND	ug/L	1		4/7/2016	6:35	4/13/2016	0:00	Eff Comp	EPA 200.8	Exova	203408
Arsenic	ND	ug/L	1		7/28/2016	6:30	8/3/2016	0:00	Eff Comp	EPA 200.8	Exova	206267
Arsenic	ND	ug/L	1		10/13/2016	7:30	10/20/2016	0:00	Eff Comp	EPA 200.8	Exova	208160
Arsenic	ND	ug/L	1		2/4/2017	6:30	2/15/2017	0:00	Eff Comp	EPA 200.8	Exova	210743
Arsenic	ND	ug/L	1		4/25/2017	6:30	5/3/2017	0:00	Eff Comp	EPA 200.8	Exova	212745
Arsenic	ND	ug/L	1		7/12/2017	6:30	7/20/2017	0:00	Eff Comp	EPA 200.8	Exova	214718
Arsenic	ND	ug/L	1		10/4/2017	6:30	10/12/2017	0:00	Eff Comp	EPA 200.8	Exova	216810
Beryllium	ND	ug/L	0.2	0.3	8/15/2013	10:45	8/28/2013	0:00	Eff Comp	EPA 200.8	Exova	150691
Beryllium	ND	ug/L	2.9	5	8/7/2014	7:45	8/12/2014	23:30	Eff Comp	EPA 200.8	Cal Science	14-08-0512
Beryllium	ND	ug/L	0.4		1/27/2015	7:00	2/9/2015	0:00	Eff Comp	EPA 200.8	Exova	163700
Beryllium	ND	ug/L	0.4		7/15/2015	6:45	7/29/2015	0:00	Eff Comp	EPA 200.8	Exova	167878
Beryllium	ND	ug/L	0.05		1/20/2016	6:30	1/28/2016	0:00	Eff Comp	EPA 200.8	Exova	201391
Beryllium	ND	ug/L	1		7/28/2016	6:30	8/3/2016	0:00	Eff Comp	EPA 200.8	Exova	206267
Beryllium	ND	ug/L	1		2/4/2017	6:30	2/15/2017	0:00	Eff Comp	EPA 200.8	Exova	210743
Beryllium	ND	ug/L	1		7/12/2017	6:30	7/20/2017	0:00	Eff Comp	EPA 200.8	Exova	214718
Cadmium	0.108	ug/L	0.03	0.4	8/15/2013	10:45	8/28/2013	0:00	Eff Comp	EPA 200.8	Exova	150691
Cadmium	ND	ug/L	1.28	10	5/9/2014	7:20	5/13/2014	15:57	Eff Comp	EPA 200.8	Cal Science	14-05-0722
Cadmium	ND	ug/L	1.28	5	8/7/2014	7:45	8/12/2014	23:30	Eff Comp	EPA 200.8	Cal Science	14-08-0512
Cadmium	ND	ug/L	1		11/14/2014	6:45	11/19/2014	0:00	Eff Comp	EPA 200.8	Exova	161735
Cadmium	ND	ug/L	0.4		1/27/2015	7:00	2/9/2015	0:00	Eff Comp	EPA 200.8	Exova	163700
Cadmium	ND	ug/L	0.3		4/28/2015	6:55	5/6/2015	0:00	Eff Comp	EPA 200.8	Exova	165925
Cadmium	0.3	ug/L	0.2		7/15/2015	6:45	7/29/2015	0:00	Eff Comp	EPA 200.8	Exova	167878
Cadmium	0.15	ug/L	0.05		10/28/2015	6:45	11/6/2015	0:00	Eff Comp	EPA 200.8	Exova	170568

Avalon WWTF Annual Major Wastewater Constituents Analysis
Priority Pollutant Metals Analysis
for Years 2013 thru 2017

Element	Result	Units	MDL	RDL	Date & Time Collected		Date & Time Analyzed		Sample ID	Analytical Method	Lab	Job No.
Cadmium	0.32	ug/L	0.05		1/20/2016	6:30	1/28/2016	0:00	Eff Comp	EPA 200.8	Exova	201391
Cadmium	ND	ug/L	1		4/7/2016	6:35	4/13/2016	0:00	Eff Comp	EPA 200.8	Exova	203408
Cadmium	ND	ug/L	1		7/28/2016	6:30	8/3/2016	0:00	Eff Comp	EPA 200.8	Exova	206267
Cadmium	ND	ug/L	1		10/13/2016	7:30	10/20/2016	0:00	Eff Comp	EPA 200.8	Exova	208160
Cadmium	ND	ug/L	1		2/4/2017	6:30	2/15/2017	0:00	Eff Comp	EPA 200.8	Exova	210743
Cadmium	ND	ug/L	1		4/25/2017	6:30	5/3/2017	0:00	Eff Comp	EPA 200.8	Exova	212745
Cadmium	ND	ug/L	1		7/12/2017	6:30	7/20/2017	0:00	Eff Comp	EPA 200.8	Exova	214718
Cadmium	ND	ug/L	1		10/4/2017	6:30	10/12/2017	0:00	Eff Comp	EPA 200.8	Exova	216810
Chromium III	0.61	ug/L	N/A		8/15/2013	10:45	8/28/2013	0:00	Eff Comp	EPA 200.8	Exova	150691
Chromium III	ND	ug/L	N/A		5/9/2014	7:20	5/14/2014	11:42	Eff Comp	EPA 200.8	Cal Science	14-05-0722
Chromium III	ND	ug/L	N/A		8/7/2014	7:30	9/3/2014	17:23	Eff Comp	EPA 200.8	Cal Science	14-08-0512
Chromium III	ND	ug/L	N/A		11/14/2014	6:45	11/19/2014	0:00	Eff Comp	EPA 200.8	Exova	161735
Chromium III	ND	ug/L	N/A		1/27/2015	7:00	2/9/2015	0:00	Eff Comp	EPA 200.8	Exova	163700
Chromium III	ND	ug/L	N/A		4/28/2015	6:55	5/6/2015	0:00	Eff Comp	EPA 200.8	Exova	165925
Chromium III	ND	ug/L	N/A		7/15/2015	6:45	7/29/2015	0:00	Eff Comp	EPA 200.8	Exova	167878
Chromium III	ND	ug/L	N/A		10/28/2015	6:45	11/6/2015	0:00	Eff Comp	EPA 200.8	Exova	170568
Chromium III	1.1	ug/L	N/A		1/20/2016	6:30	1/28/2016	0:00	Eff Comp	EPA 200.8	Exova	201391
Chromium III	ND	ug/L	N/A		4/7/2016	6:35	4/13/2016	0:00	Eff Comp	EPA 200.8	Exova	203408
Chromium III	ND	ug/L	N/A		7/28/2016	6:30	8/3/2016	0:00	Eff Comp	EPA 200.8	Exova	206267
Chromium III	ND	ug/L	N/A		10/13/2016	7:30	10/20/2016	0:00	Eff Comp	EPA 200.8	Exova	208160
Chromium III	ND	ug/L	N/A		2/4/2017	6:30	2/15/2017	0:00	Eff Comp	EPA 200.8	Exova	210743
Chromium III	ND	ug/L	N/A		4/25/2017	6:30	5/3/2017	0:00	Eff Comp	EPA 200.8	Exova	212745
Chromium III	ND	ug/L	N/A		7/12/2017	6:30	7/20/2017	0:00	Eff Comp	EPA 200.8	Exova	214718
Chromium III	ND	ug/L	N/A		10/4/2017	6:30	10/12/2017	0:00	Eff Comp	EPA 200.8	Exova	216810
Copper	8	ug/L	1		2/15/2013	7:15	2/18/2013	0:00	Eff Comp	EPA 200.8	Exova	145842
Copper	14	ug/L	0.6	5	8/15/2013	10:45	8/28/2013	0:00	Eff Comp	EPA 200.8	Exova	150691
Copper	12.2	ug/L	1.4	10	5/9/2014	7:20	5/13/2014	15:57	Eff Comp	EPA 200.8	Cal Science	14-05-0722
Copper	14.9	ug/L	1.4	5	8/7/2014	7:45	8/12/2014	23:30	Eff Comp	EPA 200.8	Cal Science	14-08-0512
Copper	2	ug/L	1		11/14/2014	6:45	11/19/2014	0:00	Eff Comp	EPA 200.8	Exova	161735
Copper	3.9	ug/L	0.4		1/27/2015	7:00	2/9/2015	0:00	Eff Comp	EPA 200.8	Exova	163700
Copper	5	ug/L	3		4/28/2015	6:55	5/6/2015	0:00	Eff Comp	EPA 200.8	Exova	165925
Copper	12	ug/L	4		7/15/2015	6:45	7/29/2015	0:00	Eff Comp	EPA 200.8	Exova	167878
Copper	7	ug/L	0.5		10/28/2015	6:45	11/6/2015	0:00	Eff Comp	EPA 200.8	Exova	170568
Copper	8.15	ug/L	0.3		1/20/2016	6:30	1/28/2016	0:00	Eff Comp	EPA 200.8	Exova	201391
Copper	7	ug/L	3		4/7/2016	6:35	4/13/2016	0:00	Eff Comp	EPA 200.8	Exova	203408
Copper	ND	ug/L	10		7/28/2016	6:30	8/3/2016	0:00	Eff Comp	EPA 200.8	Exova	206267
Copper	16	ug/L	4		10/13/2016	7:30	10/20/2016	0:00	Eff Comp	EPA 200.8	Exova	208160
Copper	5	ug/L	3		2/4/2017	6:30	2/15/2017	0:00	Eff Comp	EPA 200.8	Exova	210743
Copper	8	ug/L	2		4/25/2017	6:30	5/3/2017	0:00	Eff Comp	EPA 200.8	Exova	212745
Copper	5	ug/L	3		7/12/2017	6:30	7/20/2017	0:00	Eff Comp	EPA 200.8	Exova	214718
Copper	4	ug/g	2		10/4/2017	6:30	10/12/2017	0:00	Eff Comp	EPA 200.8	Exova	216810
Lead	1	ug/L	0.2	0.8	8/15/2013	10:45	8/28/2013	0:00	Eff Comp	EPA 200.8	Exova	150691
Lead	ND	ug/L	0.898	10	5/9/2014	7:20	5/13/2014	15:57	Eff Comp	EPA 200.8	Cal Science	14-05-0722
Lead	ND	ug/L	0.898	10	8/7/2014	7:45	8/12/2014	23:30	Eff Comp	EPA 200.8	Cal Science	14-08-0512
Lead	ND	ug/L	2		11/14/2014	6:45	11/19/2014	0:00	Eff Comp	EPA 200.8	Exova	161735
Lead	ND	ug/L	0.4		1/27/2015	7:00	2/9/2015	0:00	Eff Comp	EPA 200.8	Exova	163700
Lead	ND	ug/L	2		4/28/2015	6:55	5/6/2015	0:00	Eff Comp	EPA 200.8	Exova	165925
Lead	ND	ug/L	2		7/15/2015	6:45	7/29/2015	0:00	Eff Comp	EPA 200.8	Exova	167878
Lead	0.6	ug/L	0.3		10/28/2015	6:45	11/6/2015	0:00	Eff Comp	EPA 200.8	Exova	170568

Avalon WWTF Annual Major Wastewater Constituents Analysis
Priority Pollutant Metals Analysis
for Years 2013 thru 2017

Element	Result	Units	MDL	RDL	Date & Time Collected		Date & Time Analyzed		Sample ID	Analytical Method	Lab	Job No.
Lead	0.9	ug/L	0.3		1/20/2016	6:30	1/28/2016	0:00	Eff Comp	EPA 200.8	Exova	201391
Lead	ND	ug/L	3		4/7/2016	6:35	4/13/2016	0:00	Eff Comp	EPA 200.8	Exova	203408
Lead	ND	ug/L	2		7/28/2016	6:30	8/3/2016	0:00	Eff Comp	EPA 200.8	Exova	206267
Lead	ND	ug/L	2		10/13/2016	7:30	10/20/2016	0:00	Eff Comp	EPA 200.8	Exova	208160
Lead	ND	ug/L	3		2/4/2017	6:30	2/15/2017	0:00	Eff Comp	EPA 200.8	Exova	210743
Lead	ND	ug/L	1		4/25/2017	6:30	5/3/2017	0:00	Eff Comp	EPA 200.8	Exova	212745
Lead	ND	ug/L	3		7/12/2017	6:30	7/20/2017	0:00	Eff Comp	EPA 200.8	Exova	214718
Lead	ND	ug/L	1		10/4/2017	6:30	10/12/2017	0:00	Eff Comp	EPA 200.8	Exova	216810
Mercury	ND	ug/L	0.4	5	8/15/2013	10:45	8/28/2013	0:00	Eff Comp	EPA 200.8	Exova	150691
Mercury	0.0992	ug/L	0.045	0.2	8/7/2014	7:45	8/11/2014	13:59	Eff Comp	EPA 245.1	Cal Science	14-08-0512
Mercury	ND	ug/L	5E-05	0	1/23/2015	7:10	1/30/2015	17:18	Eff Comp	EPA 245.1	Cal Science	15-01-1470
Mercury	ND	ug/L	0.8		7/15/2015	6:45	7/29/2015	0:00	Eff Comp	EPA 200.8	Exova	167878
Mercury	0.08	ug/L	0.05		1/20/2016	6:30	1/28/2016	0:00	Eff Comp	EPA 200.8	Exova	201391
Mercury	ND	ug/L	1		7/28/2016	6:30	8/3/2016	0:00	Eff Comp	EPA 200.8	Exova	206267
Mercury	ND	ug/L	1		2/4/2017	6:30	2/15/2017	0:00	Eff Comp	EPA 200.8	Exova	210743
Mercury	ND	ug/L	1		7/12/2017	6:30	7/20/2017	0:00	Eff Comp	EPA 200.8	Exova	214718
Nickel	2.1	ug/L	0.06	0.3	8/15/2013	10:45	8/28/2013	0:00	Eff Comp	EPA 200.8	Exova	150691
Nickel	13.4	ug/L	1.32	10	5/9/2014	7:20	5/13/2014	15:57	Eff Comp	EPA 200.8	Cal Science	14-05-0722
Nickel	12.2	ug/L	1.32	10	8/7/2014	7:45	8/12/2014	23:30	Eff Comp	EPA 200.8	Cal Science	14-08-0512
Nickel	3	ug/L	1		11/14/2014	6:45	11/19/2014	0:00	Eff Comp	EPA 200.8	Exova	161735
Nickel	2.2	ug/L	0.4		1/27/2015	7:00	2/9/2015	0:00	Eff Comp	EPA 200.8	Exova	163700
Nickel	ND	ug/L	2		4/28/2015	6:55	5/6/2015	0:00	Eff Comp	EPA 200.8	Exova	165925
Nickel	5	ug/L	2		7/15/2015	6:45	7/29/2015	0:00	Eff Comp	EPA 200.8	Exova	167878
Nickel	1.6	ug/L	0.06		10/28/2015	6:45	11/6/2015	0:00	Eff Comp	EPA 200.8	Exova	170568
Nickel	2.65	ug/L	0.07		1/20/2016	6:30	1/28/2016	0:00	Eff Comp	EPA 200.8	Exova	201391
Nickel	2.5	ug/L	1		4/7/2016	6:35	4/13/2016	0:00	Eff Comp	EPA 200.8	Exova	203408
Nickel	ND	ug/L	6		7/28/2016	6:30	8/3/2016	0:00	Eff Comp	EPA 200.8	Exova	206267
Nickel	ND	ug/L	4		10/13/2016	7:30	10/20/2016	0:00	Eff Comp	EPA 200.8	Exova	208160
Nickel	3	ug/L	1		2/4/2017	6:30	2/15/2017	0:00	Eff Comp	EPA 200.8	Exova	210743
Nickel	2	ug/L	1		4/25/2017	6:30	5/3/2017	0:00	Eff Comp	EPA 200.8	Exova	212745
Nickel	2	ug/L	1		7/12/2017	6:30	7/20/2017	0:00	Eff Comp	EPA 200.8	Exova	214718
Nickel	ND	ug/L	1		10/4/2017	6:30	10/12/2017	0:00	Eff Comp	EPA 200.8	Exova	216810
Selenium	1.6	ug/L	1	4	8/15/2013	10:45	8/28/2013	0:00	Eff Comp	EPA 200.8	Exova	150691
Selenium	ND	ug/L	1.68	10	5/9/2014	7:20	5/13/2014	15:57	Eff Comp	EPA 200.8	Cal Science	14-05-0722
Selenium	1.95	ug/L	1.68	10	8/7/2014	7:45	8/12/2014	23:30	Eff Comp	EPA 200.8	Cal Science	14-08-0512
Selenium	ND	ug/L	4		11/14/2014	6:45	11/19/2014	0:00	Eff Comp	EPA 200.8	Exova	161735
Selenium	ND	ug/L	2		1/27/2015	7:00	2/9/2015	0:00	Eff Comp	EPA 200.8	Exova	163700
Selenium	ND	ug/L	3		4/28/2015	6:55	5/6/2015	0:00	Eff Comp	EPA 200.8	Exova	165925
Selenium	ND	ug/L	10		7/15/2015	6:45	7/29/2015	0:00	Eff Comp	EPA 200.8	Exova	167878
Selenium	14	ug/L	0.8		10/28/2015	6:45	11/6/2015	0:00	Eff Comp	EPA 200.8	Exova	170568
Selenium	5.6	ug/L	0.3		1/20/2016	6:30	1/28/2016	0:00	Eff Comp	EPA 200.8	Exova	201391
Selenium	9	ug/L	2		4/7/2016	6:35	4/13/2016	0:00	Eff Comp	EPA 200.8	Exova	203408
Selenium	2.5	ug/L	3		7/28/2016	6:30	8/3/2016	0:00	Eff Comp	EPA 200.8	Exova	206267
Selenium	ND	ug/L	5		10/13/2016	7:30	10/20/2016	0:00	Eff Comp	EPA 200.8	Exova	208160
Selenium	6	ug/L	2		2/4/2017	6:30	2/15/2017	0:00	Eff Comp	EPA 200.8	Exova	210743
Selenium	ND	ug/L	6		4/25/2017	6:30	5/3/2017	0:00	Eff Comp	EPA 200.8	Exova	212745
Selenium	ND	ug/L	3		7/12/2017	6:30	7/20/2017	0:00	Eff Comp	EPA 200.8	Exova	214718
Selenium	8	ug/L	5		10/4/2017	6:30	10/12/2017	0:00	Eff Comp	EPA 200.8	Exova	216810
Silver	ND	ug/L	0.02	0.3	8/15/2013	10:45	8/28/2013	0:00	Eff Comp	EPA 200.8	Exova	150691

Avalon WWTF Annual Major Wastewater Constituents Analysis
Priority Pollutant Metals Analysis
for Years 2013 thru 2017

Element	Result	Units	MDL	RDL	Date & Time Collected		Date & Time Analyzed		Sample ID	Analytical Method	Lab	Job No.
Silver	ND	ug/L	1.11	10	5/9/2014	7:20	5/13/2014	15:57	Eff Comp	EPA 200.8	Cal Science	14-05-0722
Silver	ND	ug/L	1.11	2.5	8/7/2014	7:45	8/12/2014	23:30	Eff Comp	EPA 200.8	Cal Science	14-08-0512
Silver	ND	ug/L	1		11/14/2014	6:45	11/19/2014	0:00	Eff Comp	EPA 200.8	Exova	161735
Silver	ND	ug/L	0.4		1/27/2015	7:00	2/9/2015	0:00	Eff Comp	EPA 200.8	Exova	163700
Silver	0.25	ug/L	0.2		4/28/2015	6:55	5/6/2015	0:00	Eff Comp	EPA 200.8	Exova	165925
Silver	0.5	ug/L	0.3		7/15/2015	6:45	7/29/2015	0:00	Eff Comp	EPA 200.8	Exova	167878
Silver	ND	ug/L	0.05		10/28/2015	6:45	11/6/2015	0:00	Eff Comp	EPA 200.8	Exova	170568
Silver	ND	ug/L	2		1/20/2016	6:30	1/28/2016	0:00	Eff Comp	EPA 200.8	Exova	201391
Silver	ND	ug/L	1		4/7/2016	6:35	4/13/2016	0:00	Eff Comp	EPA 200.8	Exova	203408
Silver	ND	ug/L	1		7/28/2016	6:30	8/3/2016	0:00	Eff Comp	EPA 200.8	Exova	206267
Silver	ND	ug/L	1		10/13/2016	7:30	10/20/2016	0:00	Eff Comp	EPA 200.8	Exova	208160
Silver	ND	ug/L	1		2/4/2017	6:30	2/15/2017	0:00	Eff Comp	EPA 200.8	Exova	210743
Silver	ND	ug/L	1		4/25/2017	6:30	5/3/2017	0:00	Eff Comp	EPA 200.8	Exova	212745
Silver	ND	ug/L	1		7/12/2017	6:30	7/20/2017	0:00	Eff Comp	EPA 200.8	Exova	214718
Silver	ND	ug/L	1		10/4/2017	6:30	10/12/2017	0:00	Eff Comp	EPA 200.8	Exova	216810
Thallium	ND	ug/L	0.08	1	8/15/2013	10:45	8/28/2013	0:00	Eff Comp	EPA 200.8	Exova	150691
Thallium	ND	ug/L	1.01	10	8/7/2014	7:45	8/12/2014	23:30	Eff Comp	EPA 200.8	Cal Science	14-08-0512
Thallium	ND	ug/L	0.4		1/27/2015	7:00	2/9/2015	0:00	Eff Comp	EPA 200.8	Exova	163700
Thallium	ND	ug/L	6		7/15/2015	6:45	7/29/2015	0:00	Eff Comp	EPA 200.8	Exova	167878
Thallium	ND	ug/L	0.2		1/20/2016	6:30	1/28/2016	0:00	Eff Comp	EPA 200.8	Exova	201391
Thallium	ND	ug/L	1		7/28/2016	6:30	8/3/2016	0:00	Eff Comp	EPA 200.8	Exova	206267
Thallium	ND	ug/L	2		2/4/2017	6:30	2/15/2017	0:00	Eff Comp	EPA 200.8	Exova	210743
Thallium	ND	ug/L	2		7/12/2017	6:30	7/20/2017	0:00	Eff Comp	EPA 200.8	Exova	214718
Zinc	70.5	ug/L	3	2	8/15/2013	10:45	8/28/2013	0:00	Eff Comp	EPA 200.8	Exova	150691
Zinc	151	ug/L	4.79	50	5/9/2014	7:20	5/13/2014	15:57	Eff Comp	EPA 200.8	Cal Science	14-05-0722
Zinc	90.8	ug/L	4.79	10	8/7/2014	7:45	8/12/2014	23:30	Eff Comp	EPA 200.8	Cal Science	14-08-0512
Zinc	56	ug/L	3		11/14/2014	6:45	11/19/2014	0:00	Eff Comp	EPA 200.8	Exova	161735
Zinc	50	ug/L	4		1/27/2015	7:00	2/9/2015	0:00	Eff Comp	EPA 200.8	Exova	163700
Zinc	48	ug/L	4		4/28/2015	6:55	5/6/2015	0:00	Eff Comp	EPA 200.8	Exova	165925
Zinc	74	ug/L	5		7/15/2015	6:45	7/29/2015	0:00	Eff Comp	EPA 200.8	Exova	167878
Zinc	65	ug/L	5		10/28/2015	6:45	11/6/2015	0:00	Eff Comp	EPA 200.8	Exova	170568
Zinc	93	ug/L	5		1/20/2016	6:30	1/28/2016	0:00	Eff Comp	EPA 200.8	Exova	201391
Zinc	83	ug/L	30		4/7/2016	6:35	4/13/2016	0:00	Eff Comp	EPA 200.8	Exova	203408
Zinc	50.5	ug/L	7		7/28/2016	6:30	8/3/2016	0:00	Eff Comp	EPA 200.8	Exova	206267
Zinc	95	ug/L	20		10/13/2016	7:30	10/20/2016	0:00	Eff Comp	EPA 200.8	Exova	208160
Zinc	60	ug/L	30		2/4/2017	6:30	2/15/2017	0:00	Eff Comp	EPA 200.8	Exova	210743
Zinc	61	ug/L	20		4/25/2017	6:30	5/3/2017	0:00	Eff Comp	EPA 200.8	Exova	212745
Zinc	70	ug/L	20		7/12/2017	6:30	7/20/2017	0:00	Eff Comp	EPA 200.8	Exova	214718
Zinc	61	ug/L	40		10/4/2017	6:30	10/12/2017	0:00	Eff Comp	EPA 200.8	Exova	216810

Avalon WWTF Annual Major Wastewater Constituents Analysis

for Years 2013 thru 2017

Hexavalent Chromium Analysis Ion Chromatography with Post-Column Derivatization-Visible Absorption											
Monitoring Location - Eff-001											
Compound Name	Result	Units	MDL	RL	Date & Time Collected		Date Analyzed	Sample ID	Analytical Method	Lab	Job No.
Hexavalent Chromium	ND	ug/L	0.4	0.4	8/15/2013	10:57	8/22/2013	Avalon WWTP Eff Grab	EPA 218.6	Exova	150691
Hexavalent Chromium	ND	ug/L	0.41	2	8/7/2014	7:30	8/7/2014	Avalon WWTP Eff Grab	EPA 218.6	Cal Science	14-08-0512
Hexavalent Chromium	ND	ug/L	1		1/27/2015	7:00	2/4/2015	Avalon WWTP Eff Grab	EPA 218.6	Exova	163700
Hexavalent Chromium	ND	ug/L	0.4		7/15/2015	6:45	7/27/2015	Avalon WWTP Eff Grab	EPA 218.6	Exova	167878
Hexavalent Chromium	ND	ug/L	0.4		1/20/2016	6:30	2/2/2016	Avalon WWTP Eff Grab	EPA 218.6	Exova	201391
Hexavalent Chromium	ND	ug/L	0.41	2	7/19/2016	6:30	7/19/2016	Avalon WWTP Eff Grab	EPA 218.6	Cal Science	16-07-1259
Hexavalent Chromium	ND	ug/L	0.5		2/4/2017	6:30	2/9/2017	Avalon WWTP Eff Grab	EPA 218.7	Exova	210743
Hexavalent Chromium	ND	ug/L	0.5		7/12/2017	6:30	7/18/2017	Avalon WWTP Eff Grab	EPA 218.8	Exova	214718

Tributyltin Analysis Gas Chromatography/Flame Photometric Detector											
Monitoring Location - Eff-001											
Compound Name	Result	Units	MDL	RL	Date & Time Collected		Date Analyzed	Sample ID	Analytical Method	Lab	Job No.
Tributyltin	ND	ug/L	0.05		8/15/2013	10:45	8/22/2013	Avalon WWTF Eff Comp	Gas Chromatogra	Exova	150691
Tributyltin	ND	ug/L	1.3	2.9	8/7/2014	7:45	8/19/2014	Avalon WWTF Eff Comp	Organotins by Kr	Cal Science	14-08-0512
Tributyltin	ND	ug/L	1.3	2.9	1/23/2015			Avalon WWTF Eff Comp	Organotins by Kr	Cal Science	15-01-1470
Tributyltin	ND	ug/L	1.3	2.9	7/8/2015	6:30	7/13/2015	Avalon WWTF Eff Comp	Organotins by Kr	Cal Science	15-07-0404
Tributyltin	ND	ug/L	2.7	6	1/13/2016	7:00	1/18/2016	Avalon WWTF Eff Comp	Organotins by Kr	Cal Science	16-01-0776
Tributyltin	ND	ug/L	1.3	2.9	7/19/2016	6:30	7/25/2016	Avalon WWTF Eff Comp	Organotins by Kr	Cal Science	16-07-1259
Tributyltin	ND	ug/L	0.04	0.06	1/31/2017	5:50	2/10/2017	Avalon WWTF Eff Comp	Organotins by Kr	Cal Science	17-01-2620
Tributyltin	ND	ug/L	1.3	2.9	7/20/2017	6:40	7/27/2017	Avalon WWTF Eff Comp	Organotins by Kr	Cal Science	17-07-1497

Total Cyanide Analysis											
Monitoring Location - Eff-001											
Compound Name	Result	Units	MDL	RL	Date & Time Collected		Date Analyzed	Sample ID	Analytical Method	Lab	Job No.
Cyanide	ND	mg/L	0.02		8/15/2013	10:57	8/27/2013	Avalon WWTF Eff Grab	EPA 9010	EXOVA	150691
Cyanide	ND	mg/L	0.0007	0	8/7/2014	7:30	8/11/2014	Avalon WWTF Eff Grab	SM 4500-CN E	Cal Science	14-08-0512
Cyanide	ND	mg/L	0.0007	0	1/23/2015	7:10	1/30/2015	Avalon WWTF Eff Grab	SM 4500-CN E	Cal Science	15-01-1470
Cyanide	ND	mg/L	0.0007	0	7/8/2015	6:40	7/13/2015	Avalon WWTF Eff Grab	SM 4500-CN E	Cal Science	15-07-0404
Cyanide	ND	mg/L	0.007	0.02	1/13/2016	6:40	1/19/2016	Avalon WWTF Eff Grab	SM 4500-CN E	Cal Science	16-01-0776
Cyanide	ND	mg/L	0.007	0.02	7/19/2016	6:30	7/25/2016	Avalon WWTF Eff Grab	SM 4500-CN E	Cal Science	16-07-1259
Cyanide	ND	mg/L	0.0007	0	1/31/2017	5:45	2/3/2017	Avalon WWTF Eff Grab	SM 4500-CN E	Cal Science	17-01-2620
Cyanide	ND	ug/L	0.0007	0	7/20/2017	6:40	7/28/2017	Avalon WWTF Eff Grab	SM 4500-CN E	Cal Science	17-07-1497

Avalon WWTF Annual Major Wastewater Constituents Analysis
Chlorinated Pesticides PCBs Analysis
 for Years 2013 thru 2017

Sample ID: Avalon WWTF Effluent Comp

Monitoring Location: EFF-001

Project ID: AVALON WWTF

Compound Name	Result	Units	MDL	RL	Date & Time Collected	Date & Time Analyzed	Analytical Method	Lab	Lab ID
Aldrin	ND	ug/L	0.0040	0.005	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
Aldrin	ND	ug/L	0.0006	0.0038	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
Aldrin	ND	ug/L	0.0006	0.0038	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
Aldrin	ND	ug/L	0.0006	0.0038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
Aldrin	ND	ug/L	0.0025	0.0067	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
Aldrin	ND	ug/L	0.0270	0.1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
Aldrin	ND	ug/L	0.0005	0.0013	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
Aldrin	ND	ug/L	0.0005	0.0013	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
Chlordane	ND	ug/L	0.0400	0.05	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
Chlordane	ND	ug/L	0.0020	0.0096	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
Chlordane	ND	ug/L	0.0020	0.0096	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
Chlordane	ND	ug/L	0.0130	0.025	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
Chlordane	ND	ug/L	0.3400	1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
Chlordane	ND	ug/L	0.0024	0.0049	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
Chlordane	ND	ug/L	0.0017	0.0033	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
2,4'-DDD	ND	ug/L	0.0040	0.03	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
2,4'-DDD	ND	ug/L	0.0006	0.0038	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
2,4'-DDD	ND	ug/L	0.0006	0.0038	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
2,4'-DDD	ND	ug/L	0.0006	0.0038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
2,4'-DDD	ND	ug/L	0.0025	0.0067	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
2,4'-DDD	ND	ug/L	0.0025	0.0067	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
2,4'-DDD	ND	ug/L	0.0005	0.0013	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
2,4'-DDD	ND	ug/L	0.0005	0.0013	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
2,4'-DDE	ND	ug/L	0.0040	0.03	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
2,4'-DDE	ND	ug/L	0.0007	0.0038	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
2,4'-DDE	ND	ug/L	0.0007	0.0038	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
2,4'-DDE	ND	ug/L	0.0007	0.0038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
2,4'-DDE	ND	ug/L	0.0025	0.0067	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
2,4'-DDE	ND	ug/L	0.0025	0.0067	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
2,4'-DDE	ND	ug/L	0.0005	0.0013	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
2,4'-DDE	ND	ug/L	0.0005	0.0013	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
2,4'-DDT	ND	ug/L	0.0040	0.03	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
2,4'-DDT	ND	ug/L	0.0006	0.0038	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
2,4'-DDT	ND	ug/L	0.0006	0.0038	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
2,4'-DDT	ND	ug/L	0.0006	0.0038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
2,4'-DDT	ND	ug/L	0.0025	0.0067	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
2,4'-DDT	ND	ug/L	0.0025	0.0067	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
2,4'-DDT	ND	ug/L	0.0005	0.0013	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
2,4'-DDT	ND	ug/L	0.0010	0.002	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
4,4'-DDD	ND	ug/L	0.0040	0.03	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
4,4'-DDD	ND	ug/L	0.0006	0.0038	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
4,4'-DDD	ND	ug/L	0.0006	0.0038	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
4,4'-DDD	ND	ug/L	0.0006	0.0038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
4,4'-DDD	ND	ug/L	0.0025	0.0067	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
4,4'-DDD	ND	ug/L	0.0280	0.1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
4,4'-DDD	ND	ug/L	0.0005	0.0013	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
4,4'-DDD	ND	ug/L	0.0005	0.0013	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
4,4'-DDE	ND	ug/L	0.0040	0.03	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
4,4'-DDE	ND	ug/L	0.0009	0.0038	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
4,4'-DDE	ND	ug/L	0.0009	0.0038	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
4,4'-DDE	ND	ug/L	0.0009	0.0038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
4,4'-DDE	ND	ug/L	0.0025	0.0067	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
4,4'-DDE	ND	ug/L	0.0050	0.01	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-1470
4,4'-DDT	ND	ug/L	0.0050	0.01	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
4,4'-DDT	ND	ug/L	0.0010	0.0019	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
4,4'-DDT	ND	ug/L	0.0010	0.002	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
4,4'-DDD	ND	ug/L	0.0040	0.03	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
4,4'-DDD	ND	ug/L	0.0006	0.0038	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
4,4'-DDD	ND	ug/L	0.0006	0.0038	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
4,4'-DDD	ND	ug/L	0.0006	0.0038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
4,4'-DDD	ND	ug/L	0.0025	0.0067	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
4,4'-DDD	ND	ug/L	0.0025	0.0067	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
4,4'-DDD	ND	ug/L	0.0005	0.0013	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
4,4'-DDD	ND	ug/L	0.0005	0.0013	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
4,4'-DDT	ND	ug/L	0.0040	0.03	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
4,4'-DDT	ND	ug/L	0.0006	0.0038	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
4,4'-DDT	ND	ug/L	0.0006	0.0038	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
4,4'-DDT	ND	ug/L	0.0006	0.0038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
4,4'-DDT	ND	ug/L	0.0270	0.1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
4,4'-DDT	ND	ug/L	0.0005	0.0013	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
4,4'-DDT	ND	ug/L	0.0005	0.0013	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
Dieldrin	ND	ug/L	0.0040	0.01	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
Dieldrin	ND	ug/L	0.0006	0.0038	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
Dieldrin	ND	ug/L	0.0006	0.0038	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
Dieldrin	ND	ug/L	0.0006	0.0038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
Dieldrin	ND	ug/L	0.0025	0.0067	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
Dieldrin	ND	ug/L	0.0290	0.1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
Dieldrin	ND	ug/L	0.0005	0.0013	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
Dieldrin	ND	ug/L	0.0005	0.0013	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
Endosulfan alpha	ND	ug/L	0.0090	0.03	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
Endosulfan alpha	ND	ug/L	0.0006	0.0038	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
Endosulfan alpha	ND	ug/L	0.0006	0.0038	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
Endosulfan alpha	ND	ug/L	0.0006	0.0038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
Endosulfan alpha	ND	ug/L	0.0025	0.0067	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776

Avalon WWTF Annual Major Wastewater Constituents Analysis
Chlorinated Pesticides PCBs Analysis
for Years 2013 thru 2017

Compound Name	Result	Units	MDL	RL	Date & Time Collected	Date & Time Analyzed	Analytical Method	Lab	Lab ID
Endosulfan alpha	ND	ug/L	0.0280	0.1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
Endosulfan alpha	ND	ug/L	0.0005	0.0013	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
Endosulfan alpha	ND	ug/L	0.0005	0.0013	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
Endosulfan beta	ND	ug/L	0.0090	0.03	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
Endosulfan beta	ND	ug/L	0.0006	0.0038	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
Endosulfan beta	ND	ug/L	0.0006	0.0038	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
Endosulfan beta	ND	ug/L	0.0006	0.0038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
Endosulfan beta	ND	ug/L	0.0025	0.0067	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
Endosulfan beta	ND	ug/L	0.0280	0.1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
Endosulfan beta	ND	ug/L	0.0005	0.0013	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
Endosulfan beta	ND	ug/L	0.0005	0.0013	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
Endosulfan sulfate	ND	ug/L	0.0090	0.03	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
Endosulfan sulfate	ND	ug/L	0.0006	0.0038	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
Endosulfan sulfate	ND	ug/L	0.0006	0.0038	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
Endosulfan sulfate	ND	ug/L	0.0006	0.0038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
Endosulfan sulfate	ND	ug/L	0.0025	0.0067	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
Endosulfan sulfate	ND	ug/L	0.0300	0.1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
Endosulfan sulfate	ND	ug/L	0.0005	0.0013	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
Endosulfan sulfate	ND	ug/L	0.0005	0.0013	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
Endrin	ND	ug/L	0.0030	0.01	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
Endrin	ND	ug/L	0.0006	0.0038	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
Endrin	ND	ug/L	0.0006	0.0038	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
Endrin	ND	ug/L	0.0006	0.0038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
Endrin	ND	ug/L	0.0025	0.0067	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
Endrin	ND	ug/L	0.0310	0.1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
Endrin	ND	ug/L	0.0005	0.0013	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
Endrin	ND	ug/L	0.0005	0.0013	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
HCH-alpha	ND	ug/L	0.0080	0.03	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
HCH-alpha	ND	ug/L	0.0006	0.0038	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
HCH-alpha	ND	ug/L	0.0006	0.0038	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
HCH-alpha	ND	ug/L	0.0006	0.0038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
HCH-alpha	ND	ug/L	0.0025	0.0067	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
HCH-alpha	ND	ug/L	0.0290	0.1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
HCH-alpha	ND	ug/L	0.0005	0.0013	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
HCH-alpha	ND	ug/L	0.0005	0.0013	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
HCH-beta	ND	ug/L	0.0080	0.03	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
HCH-beta	ND	ug/L	0.0015	0.0038	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
HCH-beta	ND	ug/L	0.0015	0.0038	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
HCH-beta	ND	ug/L	0.0015	0.0038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
HCH-beta	ND	ug/L	0.0050	0.01	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
HCH-beta	ND	ug/L	0.0310	0.1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
HCH-beta	ND	ug/L	0.0010	0.0019	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
HCH-beta	ND	ug/L	0.0010	0.002	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
HCH-delta	ND	ug/L	0.0080	0.03	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
HCH-delta	ND	ug/L	0.0006	0.0038	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
HCH-delta	ND	ug/L	0.0006	0.0038	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
HCH-delta	ND	ug/L	0.0006	0.0038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
HCH-delta	ND	ug/L	0.0025	0.0067	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
HCH-delta	ND	ug/L	0.0310	0.1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
HCH-delta	ND	ug/L	0.0010	0.0019	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
HCH-delta	ND	ug/L	0.0010	0.002	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
HCH-gamma (Lindane)	ND	ug/L	0.0080	0.03	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
HCH-gamma (Lindane)	ND	ug/L	0.0009	0.0038	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
HCH-gamma (Lindane)	ND	ug/L	0.0009	0.0038	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
HCH-gamma (Lindane)	ND	ug/L	0.0009	0.0038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
HCH-gamma (Lindane)	ND	ug/L	0.0025	0.0067	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
HCH-gamma (Lindane)	ND	ug/L	0.0310	0.1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
HCH-gamma (Lindane)	ND	ug/L	0.0005	0.0013	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
HCH-gamma (Lindane)	ND	ug/L	0.0005	0.0013	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
Heptachlor	ND	ug/L	0.0040	0.01	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
Heptachlor	ND	ug/L	0.0007	0.0038	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
Heptachlor	ND	ug/L	0.0007	0.0038	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
Heptachlor	ND	ug/L	0.0007	0.0038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
Heptachlor	ND	ug/L	0.0290	0.1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
Heptachlor	ND	ug/L	0.0005	0.0013	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
Heptachlor	ND	ug/L	0.0005	0.0013	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
Heptachlor	ND	ug/L	0.0005	0.0013	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-07-1497
Heptachlor epoxide	ND	ug/L	0.0040	0.01	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
Heptachlor epoxide	ND	ug/L	0.0007	0.0038	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
Heptachlor epoxide	ND	ug/L	0.0007	0.0038	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
Heptachlor epoxide	ND	ug/L	0.0006	0.0038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
Heptachlor epoxide	ND	ug/L	0.0025	0.0067	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
Heptachlor epoxide	ND	ug/L	0.0260	0.1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
Heptachlor epoxide	ND	ug/L	0.0005	0.0013	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
Heptachlor epoxide	ND	ug/L	0.0005	0.0013	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
PCB 1016	ND	ug/L	0.3400	0.7	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
PCB 1016	ND	ug/L	0.0560	0.19	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
PCB 1016	ND	ug/L	0.0560	0.19	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470

Avalon WWTF Annual Major Wastewater Constituents Analysis
Chlorinated Pesticides PCBs Analysis
 for Years 2013 thru 2017

Compound Name	Result	Units	MDL	RL	Date & Time Collected	Date & Time Analyzed	Analytical Method	Lab	Lab ID
PCB 1016	ND	ug/L	0.0110	0.038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
PCB 1016	ND	ug/L	0.2500	0.5	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
PCB 1016	ND	ug/L	0.3000	1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
PCB 1016	ND	ug/L	0.0490	0.097	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
PCB 1016	ND	ug/L	0.0500	0.1	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
PCB 1221	ND	ug/L	0.3400	0.7	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
PCB 1221	ND	ug/L	0.0540	0.19	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
PCB 1221	ND	ug/L	0.0540	0.19	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
PCB 1221	ND	ug/L	0.0110	0.038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
PCB 1221	ND	ug/L	0.2600	0.5	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
PCB 1221	ND	ug/L	0.2900	1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
PCB 1221	ND	ug/L	0.0500	0.097	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
PCB 1221	ND	ug/L	0.0510	0.1	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
PCB 1232	ND	ug/L	0.3400	0.7	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
PCB 1232	ND	ug/L	0.0480	0.19	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
PCB 1232	ND	ug/L	0.0480	0.19	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
PCB 1232	ND	ug/L	0.0095	0.038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
PCB 1232	ND	ug/L	0.2500	0.5	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
PCB 1232	ND	ug/L	0.2500	1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
PCB 1232	ND	ug/L	0.0490	0.097	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
PCB 1232	ND	ug/L	0.0500	0.1	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
PCB 1242	ND	ug/L	0.3400	0.7	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
PCB 1242	ND	ug/L	0.0240	0.19	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
PCB 1242	ND	ug/L	0.0240	0.19	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
PCB 1242	ND	ug/L	0.0048	0.038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
PCB 1242	ND	ug/L	0.2500	0.5	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
PCB 1242	ND	ug/L	0.1800	1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
PCB 1242	ND	ug/L	0.0490	0.097	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
PCB 1242	ND	ug/L	0.0500	0.1	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
PCB 1248	ND	ug/L	0.3400	0.7	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
PCB 1248	ND	ug/L	0.0390	0.19	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
PCB 1248	ND	ug/L	0.0390	0.19	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
PCB 1248	ND	ug/L	0.0077	0.038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
PCB 1248	ND	ug/L	0.2500	0.5	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
PCB 1248	ND	ug/L	0.2100	1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
PCB 1248	ND	ug/L	0.0490	0.097	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
PCB 1248	ND	ug/L	0.0500	0.1	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
PCB 1254	ND	ug/L	0.3400	0.7	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
PCB 1254	ND	ug/L	0.0430	0.19	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
PCB 1254	ND	ug/L	0.0430	0.19	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
PCB 1254	ND	ug/L	0.0086	0.038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
PCB 1254	ND	ug/L	0.25	0.5	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
PCB 1254	ND	ug/L	0.2300	1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
PCB 1254	ND	ug/L	0.0490	0.097	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
PCB 1254	ND	ug/L	0.0500	0.1	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
PCB 1260	ND	ug/L	0.3400	0.7	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
PCB 1260	ND	ug/L	0.0510	0.19	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
PCB 1260	ND	ug/L	0.0100	0.038	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
PCB 1260	ND	ug/L	0.25	0.5	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
PCB 1260	ND	ug/L	0.2700	1	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
PCB 1260	ND	ug/L	0.0490	0.097	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
PCB 1260	ND	ug/L	0.0500	0.1	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
Toxaphene	ND	ug/L	0.2000	0.5	8/7/2013 7:10	8/20/2013 21:17	EPA 608	Cal Test	N080377
Toxaphene	ND	ug/L	0.0089	0.048	8/7/2014 7:45	8/15/2014 13:13	EPA 608	Cal Science	14-08-0512
Toxaphene	ND	ug/L	0.0089	0.048	1/23/2015 7:10	2/4/2015 13:38	EPA 608	Cal Science	15-01-1470
Toxaphene	ND	ug/L	0.0088	0.048	7/8/2015 6:30	7/31/2015 15:43	EPA 608	Cal Science	15-07-0404
Toxaphene	ND	ug/L	0.25	0.5	1/28/2016 6:00	2/6/2016 0:48	EPA 608	Cal Science	16-01-0776
Toxaphene	ND	ug/L	0.6000	2	7/19/2016 6:30	7/21/2016 18:43	EPA 608	Cal Science	16-07-1259
Toxaphene	ND	ug/L	0.0490	0.097	1/31/2017 5:50	2/7/2017 18:53	EPA 608	Cal Science	17-01-2620
Toxaphene	ND	ug/L	0.0500	0.1	7/20/2017 6:40	7/27/2017 13:56	EPA 608	Cal Science	17-07-1497
Demeton	ND	ug/L	0.0027	0.0048	9/23/2014 0:00	10/2/2014 0:00	EPA 608	Cal Science	
Demeton	ND	ug/L			1/23/2015		EPA 608	Cal Science	15-01-1470
Demeton	ND	ug/L	0.0027	0.0048	7/8/2015 6:30	7/16/2015 0:25	EPA 8141A	Cal Science	15-07-0404
Demeton	ND	ug/L	0.0028	0.005	1/13/2016 6:30	1/21/2016 15:28	EPA 8141A	Cal Science	16-01-0776
Demeton	ND	ug/L	0.0027	0.0049	7/19/2016 6:30	7/26/2016 0:53	EPA 8141A	Cal Science	16-07-1259
Demeton	ND	ug/L	0.0027	0.0049	1/31/2017 5:50	2/3/2017 0:00	EPA 608	Cal Science	17-01-2620
Demeton	ND	ug/L	0.0027	0.0048	7/20/2017 6:40	8/1/2017 16:49	EPA 8141A	Cal Science	17-07-1497
Guthion (Azinphos Methyl)	ND	ug/L	0.0027	0.0048	9/23/2014 0:00	10/2/2014 0:00	EPA 8141A	Cal Science	
Guthion (Azinphos Methyl)	ND	ug/L			1/23/2015		EPA 8141A	Cal Science	15-01-1470
Guthion (Azinphos Methyl)	ND	ug/L	0.0027	0.0048	7/8/2015 6:30	7/16/2015 0:25	EPA 8141A	Cal Science	15-07-0404
Guthion (Azinphos Methyl)	ND	ug/L	0.0029	0.005	1/13/2016 6:30	1/21/2016 15:28	EPA 8141A	Cal Science	16-01-0776
Guthion (Azinphos Methyl)	ND	ug/L	0.0028	0.0049	7/19/2016 6:30	7/26/2016 0:53	EPA 8141A	Cal Science	16-07-1259
Guthion (Azinphos Methyl)	ND	ug/L	0.0027	0.0048	1/31/2017 5:50	2/3/2017 0:00	EPA 8141A	Cal Science	17-01-2620
Guthion (Azinphos Methyl)	ND	ug/L	0.0027	0.0048	7/20/2017 6:40	8/1/2017 16:49	EPA 8141A	Cal Science	17-07-1497
Malathion	ND	ug/L	0.0026	0.0048	9/23/2014 0:00	10/2/2014 0:00	EPA 8141A	Cal Science	
Malathion	ND	ug/L			1/23/2015		EPA 8141A	Cal Science	15-01-1470
Malathion	ND	ug/L	0.0026	0.0048	7/8/2015 6:30	7/16/2015 0:25	EPA 8141A	Cal Science	15-07-0404